AMENDMENTS TO THE SPECIFICATION

Paragraph [0003] of the specification is amended to read as follows:

A basic premise of OSGA is that everything is represented by a service (i.e., a network enabled entity that provides some capability through the exchange of messages). Computational resources, storage resources, networks, programs and databases are all examples of such services. More specifically, OSGA represents everything as a Grid service (i.e., a Web service that conforms to a set of conventions and supports standard interfaces for such purposes as lifetime management). This core set of consistent interfaces, from which all Grid services are implemented, facilitates the construction of higher order services that can be treated in a uniform way across layers of abstraction.

Paragraph [0014] of the specification is amended to read as follows:

Disclosed herein is a method and system to map service data description of the Open Grid Service Architecture (OGSA) to its native resource representation. Briefly stated, a common set of mapping rules and definitions is defined so as to help reduce complex programmatic mapping of service data descriptions to native resource representations, to a more design time exercise. In particular, an embodiment of the present invention describes a XML language referred to hereinafter as an OGSA Service Data mapping Language (OSDML) that includes features to support any data/resource sources and to support complex mapping through extensible language features. Some of the features of OSDML include, but are not limited to:

defining the mapping of a service data descriptions to its native resource representation at any levels of data definition granularity;

defining an extensible set of data source and/or resource access mechanisms;

defining parameterization capabilities to support dynamic values such as instance identifiers, keys, etc.;

defining executable scripts (e.g., XSL, SQL) to process the data (transformation and queries);

defining language extensibility to support advanced features like new query languages, new resources and complex mapping logic (~~e.g,~~e.g., JOINS, object hierarchies and relationships, etc.);

defining a mechanism to define private mapping for a service's internal state; and

defining a set of rules for defining and mapping service data change notification subscriptions from its native resource implementation.